Measuring device for antifriction roller bearing, has rotating magnetic encoder in minicoil to cause induction change detected by coupled coil in resonant circuit of external sensor

Patent number:

DE10011820

Publication date:

2001-09-13

Inventor:

WESER MARKUS [DE]; BINDER JOSEF [DE];

HASSIOTIS VASILIS [DE]; HOFMANN HEINRICH [DE]

Applicant:

FAG AUTOMOBILTECHNIK AG [DE]

Classification:

- international:

G01P3/488

- european:

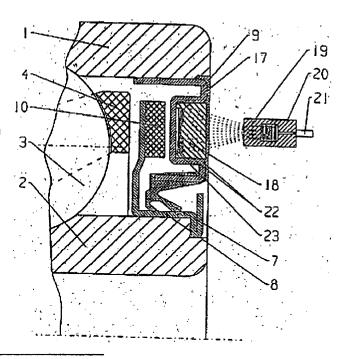
G01P3/44B; G01P3/487

Application number: DE20001011820 20000310

Priority number(s): DE20001011820 20000310

Abstract of **DE10011820**

The measuring device has a microcoil resonant circuit consisting of a minicoil (18) and capacitor, and arranged in a nonferromagnetic disc (9). A rotating magnetic encoder (10) in the minicoil causes induction change which is detected by a coupled coil (19) in the resonant circuit of an external sensor (20). The external sensor oscillates at a frequency greater than 5 Megahertz. The rotating magnetic encoder is arranged at the rotating bearing race with several North and South poles covered by the non-ferromagnetic disc.



Data supplied from the esp@cenet database - Worldwide